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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/044,155	01/11/2002	Coralyn S. Gauvin	01-600	1096

7590 01/10/2005
LSI Logic Corporation
Intellectual Property Law Department
M/S D-106
1551 McCarthy Boulevard
Milpitas, CA 95035

EXAMINER

THOMPSON, ANNETTE M

ART UNIT PAPER NUMBER

2825

DATE MAILED: 01/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/044,155

Applicant(s)

GAUVIN, CORALYN S.

Examiner

A. M. Thompson

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 October 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Applicant's Amendment to 10/044,155 has been examined. Claims 7-14 are added. Claims 3-6 are amended. Claims 1-14 are pending.

Specification

1. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: Antecedent basis is lacking for the claim terminology of "live signals" in claims 8, 10, 12, and 14.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Rejection of claims 1-14

3. Claims 1-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Dervisoglu et al. (Dervisoglu), U.S. Publication 2003/0131327.

4. Pursuant to claim 1-3, Dervisoglu discloses designating a plurality of test points in the IC from which the test signals are generated (¶¶ 12-14); designating a hierarchy of a plurality of regional levels and sub-levels within the IC (¶19); distributing a hierarchy of a plurality of multiplexers across the IC (Fig. 2), each multiplexer being local to one of

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the regional levels and sublevels (§ 23); connecting a lowest level portion of the multiplexers to the test points to receive the test signals (§23); connecting a mid-level portion of the multiplexers to other multiplexers to receive selected portions of test signals therefrom (claims 1 and 18); and connecting a highest level one of the multiplexers to the output locations to supply a final one of the selected portion of the test signals (claims 1 and 18).

5. Pursuant to claims 4 and 5, Dervisoglu discloses the integrated circuit product on which the method of claims 1-3 operates (Figs. 2, 8B, and 10).

6. Pursuant to claim 6 wherein each selecting means includes a multiplexer (§ 16, §98).

7. Pursuant to claims 7, 9, 11 and 13, wherein the test points are internal to the circuitry of the IC (§§ 4, 7, 52-54).

8. Pursuant to claims 8, 10, 12, 14, interpreting these claims as “wherein the test signals are signals from the internal test points. . .” (§§ 54, 55).

Remarks

9. Dervisoglu reads on Applicant’s claimed limitations. First of all, Dervisoglu discloses the existence of *internal* test features. The external I/O pins connect to the internal core on an IC (see at least § 44). Second, Applicant’s specification provides no antecedent basis for “live signals” and it is unclear what Applicant’s intend to claim. If “live” means *active*, then certainly Dervisoglu discloses or at least suggests active (as well as inactive) signals. Finally, Applicant asserts that the claims call for outputting in parallel. However, Examiner does not find where Applicant’s claims recites any

limitation regarding outputting test signals in parallel. But even if that were the case, Dervisoglu would still be applicable here, where at least at ¶ 45 of Dervisoglu recites applying and capturing test stimuli in parallel.

Conclusion

10. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

11. Any inquiry concerning this communication or earlier communications should be directed to Examiner A.M. Thompson whose telephone number is (571) 272-1909. The Examiner can usually be reached Monday thru Friday from 8:00 a.m. to 4:30 p.m..

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

12. Responses to this action should be mailed to the appropriate mail stop:

Mail Stop _____

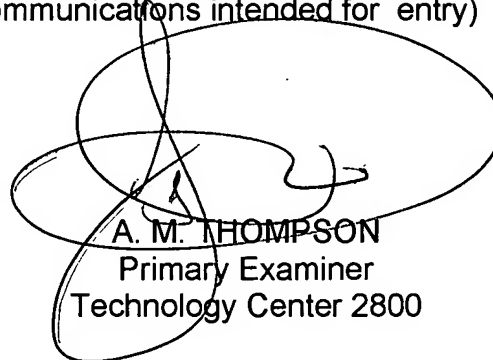
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or faxed to:

(703) 872-9306, (for all **OFFICIAL** communications intended for entry)



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